

**SEPTEMBER 2005**

**CITY OF ROCKLIN**

**SENIOR TRAFFIC MAINTENANCE WORKER**

**DEFINITION**

To perform maintenance and repair of traffic signal and lighting equipment; to operates road striping equipment, paints traffic control markings on pavement; to installs, repairs and maintain traffic warning and other signs; to provide lead direction and training for other staff; to perform related work as required.

**CLASS CHARACTERISTICS**

This is the advanced journey level class within the Traffic Maintenance Worker series. Positions at this level are distinguished from other classes within the series by the level of responsibility assumed, and complexity of duties assigned. Employees at this level are required to be fully trained in all procedures related to assigned area of responsibility.

**EXAMPLE OF DUTIES** (Illustrative Only)

- Provide technical and functional supervision over assigned traffic maintenance personnel; review work and control quality of work; assist in completing employee evaluations.
- Assist in developing work plans, procedures, and schedules.
- Performs skilled electrical and electronic work on traffic signal and related equipment, including type 170 controllers, cabinets, inductive loops and detectors, load switches, power supplies, signal heads, and other cabinet parts; Acts as first responder to resolve emergency problems..
- Perform routine maintenance, repair and adjustment of traffic control installations.
- Locates and marks underground storm drains, drain inlets, and loop wires in response to Underground Service Alert requests.
- Utilizes aerial lifts in all weather conditions to perform required installation and repair of devices and equipment.
- Inspect, remove and repair street light standards and auxiliary equipment such as control boxes, light fixtures, lamps and circuitry.
- Investigate complaints and reports of signal and traffic light malfunctions.
- Inspect signal controls, auxiliary equipment and street lighting equipment; diagnose malfunctions.
- Adjust and replace electronic, electrical, and mechanical components; re-lamp traffic signals and street lights; repair, replace, or modify signal head components, controllers, relays, switches, fuses, timers, and cabinet parts.
- Design and construct special test equipment for shop testing of electronic components; performs preventive maintenance and testing of equipment.
- Adjust, repair or remove defective equipment; make field repairs of damaged equipment; diagnose and repair electronic, electromechanical, and microprocessor controlled equipment.
- Prepare reports and maintains schematic drawings, operations manuals, accurate work records, and problem and repair logs on related equipment.

- Performs and maintains Thermoplastic and paint road striping vehicles and a glass bead dispensing system to paint striping and reflective beads on roads in accordance with relevant codes and ordinances; mixes paint, loads truck tanks and loads truck with necessary equipment and supplies; inspects equipment for safe operating condition.
- Removes and replaces sign posts with jackhammer, shovels and/or post hole diggers and pours concrete to anchor posts; affixes signs to posts at proper height.
- Prepares stencils, spaces and aligns stencils and paints road surface control legends; applies reflective, rumble and other raised pavement surface markings.
- Performs and assists in the installation of traffic warning, speed control, and other signs; paints traffic guards, barricades and raised traffic bars on pavement.
- Maintains and stocks signs and materials; refurbishes signs as necessary.
- Operates and maintains a variety of hand and power tools, including air compressors, airless spray guns, vacuum equipment, drill press, brushes, line eraser, center line machine, stencils, drills, pavement breakers, rivet guns, ladders, etc.
- Drives paint and sign trucks and operates auxiliary equipment; maintains vehicles in clean, safe operating condition; reports needed repairs.
- Observes safe driving and work practices; uses safety equipment and devices; secures worksite from traffic and other hazards; attends safety meetings.
- Act as Public Works Maintenance Supervisor as assigned.

## **QUALIFICATION**

### **Knowledge of:**

- Basic supervisory principles and practices.
- Principles, methods, materials, tools, and practices used in the repair of electronic, electrical and mechanical devices used in street lighting, and traffic control.
- Components and parts of electronic and electrical devices used in traffic control equipment.
- Principles, methods, practices in the design of traffic signals, timing plans and signal phasing.
- Techniques and materials used in traffic control painting and signing operations.
- Provisions of the relevant California Motor Vehicle Code, Uniform Sign Chart and Manual of Uniform Traffic Control Devices (MUTCD) and the California Supplement of the MUTCD.
- Safe work methods and safety regulations pertaining to the work.
- Pertinent division rules and procedures.

### **Skill in:**

- Overseeing, assisting, and training assigned staff.
- Inspecting, testing, repairing and adjusting complex traffic control devices.
- Reading and interpreting plans, electronic drawings and wiring diagrams.

- Using electronic test equipment such as voltmeters, signal generators, oscilloscopes, frequency counters.
- Operating and maintaining all traffic control Thermoplastic and painting equipment effectively and safely.
- Operating and maintaining of a wide variety of hand and power tools and equipment common to the field.
- Properly placing cones, barricades and warning devices and directing traffic flow at job sites.
- Exercising independent judgment and initiative in daily work situations.
- Preparing basic records and reports.
- Dealing tactfully with the public.
- Understanding and following oral and written instructions.
- Communicating clearly and concisely, both orally and in writing.
- Establishing and maintaining an effective working relationship with those contacted in the course of work.

A typical way of gaining the knowledge and skills outlined above is:

Equivalent to the completion of the twelfth grade and four years responsible experience in traffic signal or electronic maintenance activities.

**Licenses and Certificates:**

Valid California driver's license.

IMSA Level I certification in Traffic Signals

Level I certification in Roadway Lighting.

**PHYSICAL DEMANDS**

Mobility to traverse sometimes uneven terrain, periodically standing, stooping, bending, climbing, kneeling, twisting and reaching to perform inspection and maintenance activities; vision to read handwritten and printed materials and a computer screen; hearing and speech to communicate in person and by telephone; manual dexterity to operate tools, cleaning materials, and computers, and to grasp tools; ability to lift and carry items weighing up to 50 pounds such as tools, equipment, containers of paint and traffic control or lighting devices for distances up to 100 feet. Requires operating a vehicle and traveling to various work sites throughout the city to perform and inspect work, supervise crews and attend meetings which may involve exposure to traffic, above-average noise, machinery hazards, and chemical agents related to the work. Requires using aerial lifts in all weather conditions to perform required installation and repair of devices and equipment. Requires working multiple shifts during emergencies or special projects in varying weather conditions.

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This job specification should not be construed to imply that these requirements are the exclusive standards of the position. Not all duties are necessarily performed by each incumbent. Additionally, incumbents may be required to follow any other instructions and to perform any other related duties as may be required by their supervisor.